

SN. 10/634,727

ATTORNEY DOCKET NO. KIOI:031

IN THE CLAIMS*The status of the claims as presently amended is as follows:*

1. (Currently Amended) An engine torque control apparatus comprising:

~~an automatica~~ continuously variable transmission comprising a torque converter and a transmission mechanism;

an engine connected to an input shaft of said torque converter;

an engine torque control section that controls torque outputted from said engine; and

discharged torque calculating means for calculating a discharged torque of at least one of said engine and said ~~automatic~~ transmission; and,

wherein said engine torque control section controls torque of said engine according to the discharged torque calculated by said discharged torque calculating means,

wherein said transmission mechanism includes a primary pulley, a secondary pulley, and a belt for transmitting power from the primary pulley to the secondary pulleys, and

wherein said discharged torque calculating means calculates a friction discharged torque produced by contact frictional force, generated when the pulleys sandwich the belt therebetween,  
and

wherein said engine torque control section controls torque of the engine based on the calculated friction discharged torque.

2. (Currently Amended) An engine torque control apparatus according to claim 1, wherein:

said discharged torque calculating means comprises inertia discharged torque calculating means for calculating an inertia discharged torque of said engine or said ~~automatic~~ transmission[[:]], and

said engine torque control section controls torque of said engine according to the inertia discharged torque calculated by said inertia discharged torque calculating means.

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3. (*Currently Amended*) An engine torque control apparatus according to claim 1, wherein:

said discharged torque calculating means comprises friction discharged torque calculating means for calculating a friction discharged torque of said ~~automatic transmission~~[[;]], and

said engine torque control section controls torque of said engine according to the friction discharged torque calculated by said friction discharged torque calculating means.

4. (*Currently Amended*) An engine torque control apparatus according to claim 2, further comprising:

rotational speed detecting means for detecting a rotational speed of ~~an input shaft of said transmission mechanism~~primary pulley, and

wherein said inertia discharged torque calculating means calculates an inertia discharged torque produced by rotation of said transmission mechanism according to the rotational speed detected by said rotational speed detecting means.

5. (*Currently Amended*) An engine torque control apparatus according to claim 2 or 4, further comprising:

engine speed detecting means for detecting a revolutionary speed of a rotary shaft of said engine; and,

wherein said inertia discharged torque calculating means calculates an inertia discharged torque produced by ~~asaid~~ rotary shaft of said engine according to the revolutionary speed detected by said engine speed detecting means.

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6. *(Currently Amended)* An engine torque control apparatus according to claim 3 or 7, further comprising:

rotational speed detecting means for detecting a rotational speed of ~~an input shaft of said transmission mechanism~~ primary pulley, and

wherein said friction discharged torque calculating means calculates a rotational friction discharged torque produced by rotation of ~~the input shaft of said transmission mechanism~~ according to the rotational speed detected by said rotational speed detecting means.

7. *(Currently Amended)* An engine torque control apparatus according to claim 3 ~~or 6~~, wherein comprising:

an automatic transmission comprising a torque converter and a transmission mechanism;

an engine connected to an input shaft of said torque converter;

an engine torque control section that controls torque output from said engine; and

discharged torque calculating means for calculating a discharged torque of at least one of said engine and said automatic transmission.

wherein said discharged torque calculating means comprises friction discharged torque calculating means for calculating a friction discharged torque of said automatic transmission.

wherein said engine torque control section controls torque of said engine according to the friction discharged torque calculated by said friction discharged torque calculating means.

wherein said automatic transmission is a V belt type continuously variable transmission constructed such that a pair of variable pulleys are connected to each other via a V belt and oil pressure is supplied to oil chambers provided in respective ones of the pulleys so that gears are the gear ratio thereof is changeable ~~changed~~;

wherein the engine torque control apparatus comprises line pressure detecting means for detecting an oil pressure of line pressure as a basis for oil pressure to be supplied to the respective ones of the pulleys ~~[[;]]~~, and

wherein said friction discharged torque calculating means calculates a friction discharged torque produced by contact frictional force, generated when the pulleys sandwich the V belt

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therebetween, based on the line pressure detected by said line pressure detecting means.

8. (New) An engine torque control apparatus according to claim 1, wherein the gear ratio of said transmission mechanism is changeable by changing oil pressure supplied to oil chambers associated with the pulleys.

9. (New) An engine torque control apparatus according to claim 8, wherein said discharged torque calculating means calculates said friction discharged torque based on the oil pressure supplied to the oil chambers.

10. (New) An engine torque control apparatus according to claim 1, wherein said belt is a V-belt.

11. (New) An engine torque control apparatus comprising:

- a continuously variable transmission comprising a torque converter and a transmission mechanism;

- an engine connected to an input shaft of said torque converter;

- angular acceleration calculating means for calculating an angular acceleration of an output shaft of said engine or an input shaft of said transmission;

- an engine torque control section that controls torque output from said engine; and

- discharged torque calculating means for calculating a discharged torque of at least one of said engine and said transmission,

- wherein said discharged torque calculating means comprises inertia discharged torque calculating means for calculating an inertia discharged torque of said engine or said transmission based on the angular acceleration calculated by said angular acceleration calculating means, and

- wherein said engine torque control section controls torque of said engine according to the inertia discharged torque calculated by said inertia discharged torque calculating means.

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**12. (New) An engine torque control apparatus comprising:**

a continuously variable transmission comprising a torque converter and a transmission mechanism;

an engine connected to an input shaft of said torque converter;

line pressure detecting means for detecting line pressure supplied to said transmission mechanism;

an engine torque control section that controls torque output from said engine; and

discharged torque calculating means for calculating a discharged torque of at least one of said engine and said transmission,

wherein said discharged torque calculating means comprises friction discharged torque calculating means for calculating a friction discharged torque of said transmission based on the line pressure detected by said line pressure detecting means, and

wherein said engine torque control section controls torque of said engine according to the friction discharged torque calculated by said friction discharged torque calculating means.